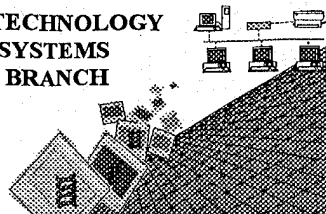BIOTECHNOLOGY
SYSTEMS
BRANCH

RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information
Center (STIC) detected errors when processing the following computer readable
form:

Application Serial Number: *10/004,378*
Source: *OIPE*
Date Processed by STIC: *10/2/2002*

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**
FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.
PATENTIN 2.1 e-mail help: **patin21help@uspto.gov** or phone 703-306-4119 (R. Wax)
PATENTIN 3.0 e-mail help: **patin3help@uspto.gov** or phone 703-306-4119 (R. Wax)

TO **REDUCE** ERRORED SEQUENCE LISTINGS, **PLEASE** USE THE **CHECKER VERSION 3.1 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
http://www.uspto.gov/web/offices/pac/checker

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (**<http://www.uspto.gov/ebc/efs/downloads/documents.htm>** , **EFS Submission User Manual** - ePAVE)
2. **U.S. Postal Service:** U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. **Hand Carry directly to:**
   U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
          Or
   U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. **Federal Express, United Parcel Service, or other delivery service to:** U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: _10/004,398_

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1____Wrapped Nucleics
Wrapped Aminos

The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."

2____Invalid Line Length

The rules require that a line not exceed 72 characters in length. This includes white spaces.

3____Misaligned Amino
Numbering

The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.

4____Non-ASCII

The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.

5____Variable Length

Sequence(s)____contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

6____PatentIn 2.0
"bug"

A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.

7____Skipped Sequences
(OLD RULES)

Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i)   SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

8____Skipped Sequences
(NEW RULES)

Sequence(s)_____missing. If intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000

9____Use of n's or Xaa's
(NEW RULES)

Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa; and which residue n or Xaa represents.

10____Invalid <213>
Response

Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence

11____Use of <220>

Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)

12____PatentIn 2.0
"bug"

Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13____Misuse of n

n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/004,378

DATE: 10/02/2002
TIME: 14:22:30

Input Set : A:\Cura4791.app
Output Set: N:\CRF4\10022002\J004378.raw

```
 3 <110> APPLICANT: Li, Li
 4         Furtak, Kazarzyna
 5         Perna, Amanda
 6         Patturajan, Meera
 7         Shimkets, Richard A
 8         Guo, Xiaojia Sasha
 9         Casman, Stacie J
10         Burgess, Catherine E
11         Malyankar, Uriel M
12         Tchernev, Velizar T
13         Vernet, Corrine A
14         Spytek, Kimberly A
15         Agee, Michele
16         Rastelli, Luca
17         Shenoy, Suresh G
18         Grosse, William M
19         Alsobrook II, John P
20         Lepley, Denise M
21         Gerlach, Valerie
22         Edinger, Schlomit
23         MacDougall, John R
24         Peyman, John A
25         Gunther, Erik
26         Stone, David J
27         Ellerman, Karen
28         Gangolli, Esha A
30 <120> TITLE OF INVENTION: Novel Human Proteins, Polynucleotides Encoding Them and
31         Methods of Using the Same
33 <130> FILE REFERENCE: 21402-179
35 <140> CURRENT APPLICATION NUMBER: 10/004378
36 <141> CURRENT FILING DATE: 2002-09-25
38 <150> PRIOR APPLICATION NUMBER: 60/242,882
39 <151> PRIOR FILING DATE: 2000-10-24
41 <150> PRIOR APPLICATION NUMBER: 60/242,765
42 <151> PRIOR FILING DATE: 2000-10-24
44 <150> PRIOR APPLICATION NUMBER: 60/300,206
45 <151> PRIOR FILING DATE: 2001-06-22
47 <150> PRIOR APPLICATION NUMBER: 60/242,789
48 <151> PRIOR FILING DATE: 2000-10-24
50 <150> PRIOR APPLICATION NUMBER: 60/242,768
51 <151> PRIOR FILING DATE: 2000-10-24
53 <150> PRIOR APPLICATION NUMBER: 60/242,767
54 <151> PRIOR FILING DATE: 2000-10-24
```

RAW SEQUENCE LISTING   DATE: 10/02/2002
PATENT APPLICATION: US/10/004,378   TIME: 14:22:30

Input Set : A:\Cura4791.app
Output Set: N:\CRF4\10022002\J004378.raw

```
56 <150> PRIOR APPLICATION NUMBER: 60/243,622
57 <151> PRIOR FILING DATE: 2000-10-26
59 <150> PRIOR APPLICATION NUMBER: 60/273,047
60 <151> PRIOR FILING DATE: 2001-03-02
62 <150> PRIOR APPLICATION NUMBER: 60/243,591
63 <151> PRIOR FILING DATE: 2000-10-26
65 <150> PRIOR APPLICATION NUMBER: 60/243,950
66 <151> PRIOR FILING DATE: 2000-10-27
68 <150> PRIOR APPLICATION NUMBER: 60/316,509
69 <151> PRIOR FILING DATE: 2001-08-31
71 <150> PRIOR APPLICATION NUMBER: 60/243,593
72 <151> PRIOR FILING DATE: 2000-10-26
74 <150> PRIOR APPLICATION NUMBER: 60/243,502
75 <151> PRIOR FILING DATE: 2000-10-26
77 <160> NUMBER OF SEQ ID NOS: 191
79 <170> SOFTWARE: PatentIn Ver. 2.1
```

ERRORED SEQUENCES

```
2599 <210> SEQ ID NO: 27
2600 <211> LENGTH: 1742
2601 <212> TYPE: DNA
2602 <213> ORGANISM: Homo sapiens
2604 <400> SEQUENCE: 27
2605 cggccgcgtc gacgctggcc gctcctggag gcggcggcgg gagcgcaggg ggcgcgcggc 60
2606 ccggggactc gcattccccg gttccccctc cacccacgc ggcctggacc atggacgcca 120
2607 gatggtgggc agtggtggtg ctggctgcgt tccctccct aggggcaggt ggggagactc 180
2608 ccgaagcccc tccggagtca tggacccagc tatggttctt ccgatttgtg gtgaatgctg 240
2609 ctggctatgc cagctttatg gtacctggct acctcctggt gcagtacttc aggcggaaga 300
2610 actacctgga gaccggtagg ggcctctgct ttcccctggt gaaagcttgt gtgtttggca 360
2611 atgagcccaa ggcctctgat gaggttcccc tggcgccccg aacagaggcg gcagagacca 420
2612 ccccgatgtg gcaggccctg aagctgctct tctgtgccac agggctccag gtgtcttatc 480
2613 tgacttgggg tgtgctgcag gaaagagtga tgacccgcag ctatgggccc acagccacat 540
2614 caccgggtga gcgctttacg gactcgcagt tcctggtgct aatgaaccga gtgctggcac 600
2615 tgattgtggc tggcctctcc tgtgttctct gcaagcagcc ccggcatggg gcacccatgt 660
2616 accggtactc ctttgccagc ctgtccaatg tgcttagcag ctggtgccaa tacgaagctc 720
2617 ttaagttcgt cagcttcccc acccaggtgc tggccaaggc ctctaaggtg atccctgtca 780
2618 tgctgatggg aaagcttgtg tctcggcgca gctacgaaca ctgggagtac ctgacagcca 840
2619 cactcatctc cattggggtc agcatgtttc tgctatccag cggaccagag ccccgcagct 900
2620 ccccagccac cacactctca ggcctcatct tactggcagg ttatattgct tttgacagct 960
2621 tcacctcaaa ctggcaggat gccctgtttg cctataagat gtcatcggtg cagatgatgt 1020
2622 ttggggtcaa tttcttctcc tgcctcttca cagtgggctc actgctagaa caggggggccc 1080
2623 tactggaggg aacccgcttc atggggcgac acagtgagtt tgctgcccat gccctgctac 1140
2624 tctccatctg ctccgcatgt ggccagctct tcatctttta caccattggg cagtttgggg 1200
2625 ctgccgtctt caccatcatc atgaccctcc gccaggcctt tgccatcctt ctttcctgcc 1260
2626 ttctctatgg ccacactgtc actgtggtgg gagggctggg ggtggctgtg gtctttgctg 1320
2627 ccctcctgct cagagtctac gcgcggggcc gtctaaagca acggggaaag aaggctgtgc 1380
2628 ctgttgagtc tcctgtgcag aaggtttgag ggtggaaagg gcctgagggg tgaagtgaaa 1440
```

RAW SEQUENCE LISTING   DATE: 10/02/2002
PATENT APPLICATION: US/10/004,378   TIME: 14:22:30

        Input Set : A:\Cura4791.app
        Output Set: N:\CRF4\10022002\J004378.raw

```
        2629 taggaccctc ccaccatccc cttctgctgt aacctctgag ggagctggct gaaagggcaa 1500
        2630 aatgcaggtg ttttctcagt atcacagacc agctctgcag caggggattg gggagcccag 1560
E--> 2631 gaggcagcct tcccttttgc cttaagtcpa cccatcttcc angtaagcag tttattctga 1620
        2632 gccccggggg tagacagtcc tcagtgaggg gttttgggga gtttgggtc aagagagcat 1680
        2633 aggtaggttc cacagttact cttcccacaa gttcccttaa gtcttgccct agctgtgctc 1740
        2634 tg                                                                1742
        6544 <210> SEQ ID NO: 101
        6545 <212> TYPE: PRT
        6546 <213> ORGANISM: Homo sapiens
W--> 6548
        6548 <400> SEQUENCE: 101
E--> 6548
        7305 <210> SEQ ID NO: 111
        7306 <211> LENGTH: 1027
        7307 <212> TYPE: PRT
        7308 <213> ORGANISM: Mus musculus
        7310 <400> SEQUENCE: 111
        7311 Met Arg Arg Phe Leu Arg Thr Gly His Asp Pro Ala Arg Glu Arg Leu
        7312  1               5                   10                  15
        7314 Lys Arg Asp Leu Phe Gln Phe Asn Lys Thr Val Glu His Gly Phe Pro
        7315                 20                  25                  30
        7317 His Gln Pro Ser Ala Leu Gly Tyr Ser Pro Ser Leu Arg Ile Leu Ala
        7318             35                  40                  45
        7320 Ile Gly Thr Arg Ser Gly Ala Val Lys Leu Tyr Gly Ala Pro Gly Val
        7321         50                  55                  60
        7323 Glu Phe Met Gly Leu His Lys Glu Asn Asn Ala Val Leu Gln Ile His
        7324 65                  70                  75                  80
        7326 Phe Leu Pro Gly Gln Cys Gln Leu Val Thr Leu Leu Asp Asp Asn Ser
        7327                 85                  90                  95
        7329 Leu His Leu Trp Ser Leu Lys Val Lys Gly Gly Val Ser Glu Leu Gln
        7330             100                 105                 110
        7332 Glu Glu Glu Ser Phe Thr Leu Arg Gly Pro Pro Gly Ala Ala Pro Ser
        7333             115                 120                 125
        7335 Ala Thr Gln Val Thr Glu Ile Leu Pro His Ser Ser Gly Glu Leu Leu
        7336         130                 135                 140
        7338 Tyr Leu Gly Thr Glu Ser Gly Asn Val Leu Val Val Gln Leu Pro Gly
        7339 145                 150                 155                 160
        7341 Phe Arg Thr Leu His Asp Arg Thr Ile Cys Ser Asp Glu Val Leu Gln
        7342                 165                 170                 175
        7344 Trp Leu Pro Glu Glu Ala Arg His Arg Arg Val Phe Glu Met Val Glu
        7345             180                 185                 190
        7347 Ala Leu Gln Glu His Pro Arg Asp Pro Asn Gln Ile Leu Ile Gly Tyr
        7348             195                 200                 205
        7350 Ser Arg Gly Leu Val Val Ile Trp Asp Leu Gln Gly Ser Arg Ala Leu
        7351         210                 215                 220
        7353 Ser His Phe Leu Ser Ser Gln Gln Leu Glu Asn Ala Ser Trp Gln Arg
        7354 225                 230                 235                 240
        7356 Asp Gly Cys Leu Ile Val Thr Cys His Ser Asp Gly Ser His Cys Gln
        7357                 245                 250                 255
```

(handwritten annotations)) see

p. 6 for error explanation

<2117 insert this mandatory numeric identifier and its response

where are amino acids?

see pp. 5, 6

If this is an intentionally skipped sequence, follow format in item 8 of Error summary sheet

RAW SEQUENCE LISTING   DATE: 10/02/2002
PATENT APPLICATION: US/10/004,378   TIME: 14:22:31

Input Set : A:\Cura4791.app
Output Set: N:\CRF4\10022002\J004378.raw

```
7359 Trp Pro Val Ser Ser Asp Thr Gln Asn Pro Glu Pro Leu Arg Ser Ser
7360         260             265             270
7362 Ile Pro Tyr Gly Pro Phe Pro Cys Lys Ala Ile Thr Lys Ile Phe Trp
7363         275             280             285
7365 Leu Thr Thr Arg Gln Gly Leu Pro Phe Thr Ile Phe Gln Gly Gly Met
7366         290             295             300
7368 Pro Arg Ala Ser Tyr Gly Asp Arg Asn Cys Ile Ser Val Val His Asn
7369 305             310             315             320
7371 Gly Gln Gln Thr Gly Phe Asp Phe Thr Ser Arg Val Ile Asp Phe Thr
7372         325             330             335
7374 Val Leu Ser Glu Ala Asp Pro Ala Ala Ala Phe Asp Asp Pro Tyr Ala
7375         340             345             350
7377 Leu Val Val Leu Ala Glu Glu Glu Leu Val Val Ile Asp Leu Gln Thr
7378         355             360             365
7380 Pro Gly Trp Pro Pro Val Gln Leu Pro Tyr Leu Ala Ser Leu His Cys
7381         370             375             380
7383 Ser Ala Ile Thr Cys Ser His His Val Ser Asn Ile Pro Leu Lys Leu
7384 385             390             395             400
7386 Trp Glu Arg Ile Ile Ala Ala Gly Ser Arg Gln Asn Ser His Phe Ser
7387         405             410             415
7389 Thr Met Glu Trp Pro Ile Asp Gly Gly Thr Ser Leu Ala Pro Pro Pro
7390         420             425             430
7392 Pro Gln Arg Asp Leu Leu Leu Thr Gly His Glu Asp Gly Thr Val Arg
7393         435             440             445
7395 Phe Trp Asp Ala Ser Gly Val Cys Leu Arg Leu Leu Tyr Lys Leu Ser
7396         450             455             460
7398 Thr Val Arg Val Phe Leu Thr Asp Thr Asp Pro Ser Glu Asn Leu Ser
7399 465             470             475             480
7401 Ala Gln Gly Glu Asp Glu Trp Pro Pro Leu Arg Lys Val Gly Ser Phe
7402         485             490             495
7404 Asp Pro Tyr Ser Asp Asp Pro Arg Leu Gly Ile Gln Lys Ile Phe Leu
7405         500             505             510
7407 Cys Lys Tyr Ser Gly Tyr Leu Ala Val Ala Gly Thr Ala Gly Gln Val
7408         515             520             525
7410 Leu Val Leu Glu Leu Asn Asp Glu Ala Ala Glu His Ala Val Glu Gln
7411 530             535             540
7413 Val Glu Ala Asp Leu Leu Gln Asp Gln Glu Gly Tyr Arg Trp Lys Gly
7414 545             550             555             560
7416 His Glu Arg Leu Ala Ala Arg Pro Gly Pro Val Cys Phe Glu Ala Gly
7417         565             570             575
7419 Phe Gln Pro Phe Val Leu Val Gln Cys Gln Pro Pro Ala Val Val Thr
7420         580             585             590
7422 Ser Leu Ala Leu His Ser Glu Trp Arg Leu Val Ala Phe Gly Thr Ser
7423         595             600             605
7425 His Gly Phe Gly Leu Phe Asp His Gln Gln Arg Arg Gln Val Phe Val
7426         610             615             620
7428 Lys Cys Thr Leu His Pro Ser Asp Gln Leu Ala Leu Glu Gly Pro Leu
7429 625             630             635             640
7431 Ser Arg Val Lys Ser Leu Lys Lys Ser Leu Arg Gln Ser Phe Arg Arg
```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/004,378

DATE: 10/02/2002
TIME: 14:22:31

Input Set : A:\Cura4791.app
Output Set: N:\CRF4\10022002\J004378.raw

```
        7432                  645                  650                  655
        7434 Met Arg Arg Ser Arg Val Ser Ser His Lys Arg Arg Pro Gly Gly Pro
        7435              660                  665                  670
        7437 Thr Gly Glu Ala Gln Ala Gln Ala Val Asn Thr Lys Thr Glu Arg Thr
        7438              675                  680                  685
        7440 Gly Leu Gln Asn Met Glu Leu Ala Pro Val Gln Arg Lys Ile Glu Ala
        7441          690                  695                  700
E-->    7443 Arg Ser Ala Glu Asp Ser Phe Thr Gly Phe Val Xaa Thr Leu Tyr Xaa
        7444 705                  710                  715                  720
        7446 Ala Asp Thr Tyr Leu Arg Asp Ser Ser Arg His Cys Pro Ser Leu Trp
        7447              725                  730                  735
        7449 Ala Gly Thr Asn Gly Ser Thr Val Tyr Ala Phe Ser Leu Arg Val Pro
        7450              740                  745                  750
        7452 Pro Ala Glu Lys Lys Ile Asn Lys Pro Val Arg Ala Lys Gln Ala Lys
        7453          755                  760                  765
        7455 Glu Ile Gln Leu Met His Arg Ala Pro Val Val Gly Ile Leu Val Leu
        7456          770                  775                  780
        7458 Asp Gly His Asn Val Pro Leu Pro Glu Pro Leu Glu Val Ala His Asp
        7459 785                  790                  795                  800
        7461 Leu Ser Lys Ser Pro Asp Met Gln Gly Ser His Gln Leu Leu Val Val
        7462              805                  810                  815
        7464 Ser Glu Glu Gln Phe Lys Val Phe Thr Leu Pro Lys Val Ser Ala Lys
        7465              820                  825                  830
        7467 Leu Lys Leu Lys Leu Thr Ala Leu Glu Gly Ser Arg Val Arg Arg Val
        7468          835                  840                  845
        7470 Gly Val Ala His Phe Gly Ser Cys Arg Ala Glu Asp Tyr Gly Glu His
        7471          850                  855                  860
        7473 His Leu Ala Val Leu Thr Asn Leu Gly Asp Ile Gln Val Val Ser Met
        7474 865                  870                  875                  880
        7476 Pro Leu Leu Lys Pro Gln Val Arg Tyr Ser Cys Ile Arg Arg Glu Asp
        7477              885                  890                  895
        7479 Val Ser Gly Ile Ala Ser Cys Val Phe Thr Lys Tyr Gly Gln Gly Phe
        7480          900                  905                  910
        7482 Tyr Leu Ile Ser Pro Ser Glu Phe Glu Arg Phe Ser Leu Ser Thr Lys
        7483          915                  920                  925
        7485 Trp Leu Val Glu Pro Arg Cys Leu Val Asp Ser Thr Lys Ala Lys Lys
        7486          930                  935                  940
        7488 His Asn Arg Pro Ser Asn Gly Asn Gly Thr Gly Pro Lys Met Thr Ser
        7489 945                  950                  955                  960
        7491 Ser Gly His Val Arg Asn Ser Lys Ser Gln Ser Asp Gly Asp Glu Lys
        7492              965                  970                  975
        7494 Lys Pro Gly Pro Val Met Glu His Ala Leu Leu Asn Asp Ala Trp Val
        7495              980                  985                  990
        7497 Leu Lys Glu Ile Gln Ser Thr Leu Glu Gly Asp Arg Arg Ser Tyr Gly
        7498          995                  1000                  1005
        7500 Asn Trp His Pro His Arg Val Ala Val Gly Cys Arg Leu Ser Asn Gly
        7501    1010                  1015                  1020
        7503 Glu Ala Glu
        7504 1025
```

VARIABLE LOCATION SUMMARY   DATE: 10/02/2002
PATENT APPLICATION: US/10/004,378   TIME: 14:22:33

Input Set : A:\Cura4791.app
Output Set: N:\CRF4\10022002\J004378.raw

Use of n's or Xaa's(NEW RULES):
Use of n's and/or Xaa's have been detected in the Sequence Listing.
Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
in <220> to <223> section, please explain location of n or Xaa, and which
residue n or Xaa represents.

Seq#:27; N Pos. 1589,1602
Seq#:109; Xaa Pos. 2,9,15,16,20,22,23,24
Seq#:111; Xaa Pos. 716,720

VERIFICATION SUMMARY   DATE: 10/02/2002
PATENT APPLICATION: US/10/004,378   TIME: 14:22:33

                Input Set : A:\Cura4791.app
                Output Set: N:\CRF4\10022002\J004378.raw

L:36 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:2631 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:27
L:6548 M:282 W: Numeric Field Identifier Missing, <211> is required.
L:6548 M:301 E: (44) No Sequence Data was Shown, SEQ ID:101
L:7099 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:109
L:7099 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:109
L:7099 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:109 after pos.:0
L:7102 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:109
L:7102 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:109
L:7102 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:109 after pos.:16
L:7443 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:111